IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:	
Beck, James and Barnett, Jason	Art Unit: TBA
Serial. No. 10/623,880	Examiner: TBA
Filed: July 21, 2003	Atty Docket: 60063USDIV2
For: DETECTION OF FUNGAL PATHOGENS USING THE POLYMERASE CHAIN REACTION	

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with 37 CFR §1.56, Applicants wish to call the Examiner's attention to the references cited on the attached Form PTO-1449. Copies of these references are not enclosed herewith since copies were provided with the parent application no. 09/933,379. The submission of this IDS is not intended as a surrender of patentable subject matter nor is it intended to create prosecution history estoppel.

The Examiner is requested to consider the foregoing information in relation to this application and to indicate that each reference was considered by returning a copy of the initialed PTO 1449 forms.

In accordance with 37 CFR §1.97(b)(3), no fee is believed to be required for consideration of this statement because it is being submitted before the mailing date of a first Office Action on the merits.

Respectfully submitted,

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FORM PTO-1449 (REV. 7-85) | U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE

INFORMATION DISCLOSURE CITATION

(Use several sheets if necessary)

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APPLICATION NO.
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APPLICANT
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE
	AA	4,683,202	7/28/87	Kary B. Mullis	435	91	10/25/85
	AB	4,683,195	7/28/87	Mullis, et al.	435	6	2/7/86
	AC	5,585,238	12/17/96	James. Ligon and James. Beck	435	6	4/25/94
	AD	5,800,997	9/1/98	James J. Beck	435	6	11/1/96
	AE	5,955,274	9/21/99	James Ligon and James Beck	435	6	4/19/95

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent pages, Etc.)

	AA	Adaskaveg, J.E. and Hartin, R.J., *Characterization of Colletotrichum acutatum Isolates Causing Anthracnose of Almond and Peach in California* *Etiology*, Vol. 87, No. 9 (1997), pp. 979-987
	AB	Barker, I., et al. "Strawberry Blackspot Disease *(Colletotrichum acutatum)"* in Schots A., Dewey FM, Oliver R. (Eds.). *Modern assay for plant pathogenic fungi: identification, detection and quantification* (Wallingford, Oxford: CAB International, 1994), pp. 179-182.
	AC	Förster, H. and Adaskaveg, J.E., *Identification of Subpopulations of Colletotrichum acutatum and Epidemiology of Almond Anthracnose in California* *Phytopathology*, Vol. 89, No. 11 (1999), pp. 1056-1065
	AD	Johanson, A. and Jeger M. *Use of PCR for detection of Mycosphaerella fijiensis and M. musicola, the causal agents of Sigatoka leaf spots in banana and plantain* *Mycological Research*, Vol. 97, No. 6 (1993), pp. 670-674.
	AE	Lee, et al. *A rapid, high yield mini-prep method for isolation of total genomic DNA from fungi* *Fungal Genetics Newsletter*, No. 35 (June, 1988), pp. 23-24
	AF	Lee, S.B. and Taylor, J.W., "Isolation of DNA from fungal mycelia and single spores." In: eds. Innis, et al., *PCR Protocols: A Guide to Methods and Applications* (New York, Academic Press, Inc., 1990) Pp. 282-287.
	AG	*Mills, P.R., et al. "*Detection of the Anthracnose Pathogen *Colletotrichum" in Schots A., Dewey FM, Oliver R. (Eds.).* Modern assay for plant pathogenic fungi: identification, detection and quantification *(Wallingford, Oxford: CAB International, 1994), pp. 183-189.*
	AH	Nazar, et al. *Potential use of PCR-amplified ribosomal intergenic sequences in the detection and differentiation of verticillium wilt pathogens* *Physiological and Molecular Plant Pathology*, Vol. 39, (1991), pp. 1-11.
	AI	Pryor, B.M. and Gilbertson, R.L. *Molecular phylogenetic relationships amongst Alternaria species and related fungi based upon analysis of nuclear ITS and mt SSU rDNA sequences* Mycological Research, *Vol. 104, Part 11 (Nov. 2000), pp. 1312-1321*

EXAMINER	DATE CONSIDERED

*EXAMINER: Initial of reference considered, whether or not citation is in conformance with MPEP 609: Draw a line through citation if not in conformance and not considered. Include a copy of this form with the next communication to applicant.

	AJ	Raeder, U. and Broda, P. *Rapid preparation of DNA from filamentous fungi* *Letters in Applied Microbiology*, Vol. 1 (1985), pp. 17-20.

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	AK	Schesser, K., et al. *Use of Polymerase Chain Reaction to Detect the Take-All Fungus, Gaeumannomyces graminis, in Infected Wheat Plants* *Applied and Environmental Microbiology*, Vol. 57, No. 2 (1990), pp. 553-556
	AL	Schnabel, G. et al. *Characterization of Ribosomal DNA from Venturia inaequalis and Its Phylogenetic Relationship to rDNA from Other Tree-Fruit Venturia Species* *Phytopathology*, Vol. 89, No. 1 (1999), pp. 100-108
	AM	Sreenivasaprasad, S., et al. *Phylogeny and systematics of 18 Colletotrichum species based on ribosomal DNA spacer sequences* *Genome*, Vol. 39 (1996), pp. 499-512
	AN	Teviotdale, B.L., et al. *First Report of Alternaria Leaf Spot of Almond Caused by Species in the Alternaria alternata Complex in California* *Plant Disease*, Vol. 85, No. 5 (May, 2001), pp. 558
		Wang et al, *PCR amplification from single seeds, facilitating DNA marker-assisted breeding* *Nucleic Acids Research*, Vol. 21, No. 10 (1993), pp. 2527
	AO	White, et al. "Amplification and direct sequencing of fungal ribosomal RNA genes for phylogenetics." In: eds. Innis, et al., *PCR Protocols: A Guide to Methods and Applications* (New York, Academic Press, Inc., 1990) Pp. 315-322.
	AP	Zur, et al. *Development of a Polymerase Chain Reaction-Based Assay for the Detection of Alternaria Fungal Contamination in Food Products* *Journal of Food Protection*, Vol. 62, No. 10 (1999), pp. 1191-1197
	AQ	GenBank Accession Number AF065849 [online], retrieved on 2001-10-26]. Retrieved from the Internet: <URL: http://www.ncbi.nlm.nih.gov>
	AR	GenBank Accession Number AF071346 [online], retrieved on 2001-10-26]. Retrieved from the Internet: <URL: http://www.ncbi.nlm.nih.gov>
	AS	GenBank Accession Number AF090853 [online], retrieved on 2001-10-26]. Retrieved from the Internet: <URL: http://www.ncbi.nlm.nih.gov>
	AT	GenBank Accession Number AF090854 [online], retrieved on 2001-10-26]. Retrieved from the Internet: <URL: http://www.ncbi.nlm.nih.gov>
	AU	GenBank Accession Number AF090855 [online], retrieved on 2001-10-26]. Retrieved from the Internet: <URL: http://www.ncbi.nlm.nih.gov>
	AV	GenBank Accession Number AF218791 [online], retrieved on 2001-10-26]. Retrieved from the Internet: <URL: http://www.ncbi.nlm.nih.gov>
	AW	GenBank Accession Number AF229459 [online], retrieved on 2001-10-26]. Retrieved from the Internet: <URL: http://www.ncbi.nlm.nih.gov>

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	AX	GenBank Accession Number AF229460 [online], retrieved on 2001-10-26]. Retrieved from the Internet: <URL: http://www.ncbi.nlm.nih.gov>
	AY	GenBank Accession Number AF229461 [online], retrieved on 2001-10-26]. Retrieved from the Internet: <URL: http://www.ncbi.nlm.nih.gov>
	AZ	GenBank Accession Number AJ276055 [online], retrieved on 2001-10-26]. Retrieved from the Internet: <URL: http://www.ncbi.nlm.nih.gov>
	BA	GenBank Accession Number AJ276059 [online], retrieved on 2001-10-26]. Retrieved from the Internet: <URL: http://www.ncbi.nlm.nih.gov>
	BB	GenBank Accession Number Z73765 [online], retrieved on 2001-10-26]. Retrieved from the Internet: <URL: http://www.ncbi.nlm.nih.gov>
	BC	GenBank Accession Number Z73786 [online], retrieved on 2001-10-26]. Retrieved from the Internet: <URL: http://www.ncbi.nlm.nih.gov>
	BD	GenBank Accession Number Z73781 [online], retrieved on 2001-10-26]. Retrieved from the Internet: <URL: http://www.ncbi.nlm.nih.gov>
	BE	GenBank Accession Number Z73799 [online], retrieved on 2001-10-26]. Retrieved from the Internet: <URL: http://www.ncbi.nlm.nih.gov>

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I hereby certify that the following correspondence is being deposited with the United States Postal Service as "First Class Mail" with proper postage in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313, on August 4, 2004.

1) Information Disclosure Statement
2) Form PTO-1449
3) Return Postcard

Melissa Hardy
Name

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